





International Association of Hydrological Sciences Officers for 1983-1987. The following officers of IAHS are shown shortly after their election at Hanover, Federal Republic of Germany, on August 26, 1983. Front row, left to right: A. Ivan Johnson, President, International Committee on Remote Sensing and Data Transmission (USA); G. Matthes, President, International Commission on Water Quality (FRG); Mark F. Meier, Immediate Past President, IAHS (USA); N. R. Axelsen, Third Vice President, IAHS (Sweden); G. Kivarc, President, IAHS (Hungary); J. J. Hickey, President, International Commission on Snow and Ice (Iceland). Back row, left to right: L. O. O'Donnell, Editor, IAHS (UK); J. Rodriguez-Iturbe, Past Vice President, IAHS (Mexico); H. L. Liedl, President, Second Vice President, IAHS (USA); M. Hamlin, President, International Commission on Water Resource Systems (UK); H. J. Ringer, Treasurer, IAHS (USA); H. J. Liedl, President, International Commission on Groundwater (Netherlands). Not present for the photo was J. E. Bodda, Secretary General, IAHS (UK).

Cont. from p. 94

earth scientists from many sections of AGU it think immediately to the question of climate variability and to handle three problems: (1) to gather data on the history of hydrology through the AGU journal *Water Resources Research*, through the nature and quality of our technical sessions, and through gaining more recognition for our most distinguished members; (2) to be my primary goal as your President. I welcome your comments on this position.

Peter S. Eagleson  
President  
AGU Hydrology Section

#### Reporters for WaterWatch

**EROSION AND SEDIMENTATION:** Karen Prestegard, Franklin and Marshall College, Dept. of Geology, Box 3003, Lancaster, PA 17604-1729; tel. 717-393-2911.

**REMOTE SENSING:** Howard J. Jackson, USRA, Bellville Agricultural Research Center, Bellville, MD 20705; tel. 301-431-4300.

**WATER QUALITY:** Charles E. Chamberlain, Dept. of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD 21218; tel. 301-338-7100.

**GROUNDWATER:** Jack Robertson, USGS, EGS, Mail Stop 110, Reston, VA 20292 (703-860-6761).

**INTERNATIONAL REPORTER:** A. Ivan Johnson, 7475 Upland Court, Arvada, CO 80003; 303-425-5610.

**Precipitation:** Vijay K. Gupta, Dept. of Civil Engineering, Univ. of Mississippi, University, MS 38677-1601; 662-232-5330.

**Surface Runoff:** Keri Hipek, Dept. of Systems Design Engineering, Univ. of Waterloo, Waterloo, Ontario, Canada N2L 3G1; 519-885-1211, ext. 3113.

**Urban Hydrology:** Marshall Jennings, USGS, 1000 Fairmount, Denver, CO 80202; tel. 303-601-6881-3108.

**Soil Water:** Hubert Mored-Sexton, Engineering Research Center, Colorado State Univ., Fort Collins, CO 80524-3303; 303-494-5199.

**Snow and Ice:** Jeff Dorner, Dept. of Geography, Univ. of California, Santa Barbara, CA 93106; (805) 961-2109 or 2663.

**History and Heritage:** Edward R. Linda, USGS, 1000 Fairmount, Denver, CO 80202; tel. 303-601-6881.

**News & Announcements:** Jeff Dorner, Dept. of Geography, Univ. of California, Santa Barbara, CA 93106; (805) 961-2109 or 2663.

**History and Heritage Committee:** Edward R. Linda, USGS, 1000 Fairmount, Denver, CO 80202; tel. 303-601-6881.

The past few years have seen a burst of interest in discipline-specific history within the scientific community. Within the Hydrology Section during the past year such interest has resulted in the formation of a History and Heritage Committee. This committee will function as a subgroup of AGU's Committee on the History of Geophysics, which was established in 1981. The History and Heritage Committee is still in the embryonic stage, and

the principal investigators are now in the process of constructing the wellfield modifications required to initiate actual field studies. Theoretical work performed during the past 9 months will form the basis for designing a series of tracer tests which will be initiated in late 1983 or early 1984. Manuscripts describing the theoretical background for the project have been submitted to *Water Resources Research* and to *Ground Water*. In addition to principal investigators Fred J. Molz, Okay Given, and Joel G. Melville of Auburn's Civil Engineering Department and supporting staff, the project will employ a co-principal investigator, two field engineers, and three graduate students.

This news item contributed by Fred L. Molz, Engineering Experiment Station, Auburn University, AL 36849.

#### Kisiel Lectures

The Department of Hydrology and Water Resources at the University of Arizona has instituted a series of lectures to perpetuate the memory of Chester C. Kisiel. The first lecture, "Reflections on Hydrology," was delivered on March 2, 1982, by Nicholas C. Matthes, of the U.S. Geological Survey. The text of the lecture has been published as a 16-page booklet and is available at \$3 per copy from the Department of Hydrology and Water Resources, University of Arizona, Tucson, AZ 8521. The second lecture in the series was delivered in March 1983 by Myron B. Flierling, of Harvard University and its text is now being prepared for publication. The third lecture in the series, by John Bredehoeft of the U.S. Geological Survey, Menlo Park, is scheduled for February 29, 1984, in Tucson.

This news item contributed by Nathan Baras, Department of Hydrology and Water Resources, University of Arizona, Tucson, AZ 8521.

#### Meetings

#### Hydrology Days

The fourth annual AGU Front Range Branch Hydrology Days will be held April 24-26, 1984, at Colorado State University, Fort Collins. Special sessions are planned on "Hydrology of the Vadose Zone" and "Surface and Groundwater Models Suited for Management of Aquifers and Stream Aquifer Systems" (Eos, November 22, 1983, p. 150). Deadline for submission of abstracts is February 21, 1984. Contact H. J. Morel-Seytoux, Department of Civil Engineering, Colorado State University, Fort Collins, CO 80523 (tel. 303-491-5444 or -8549).

The third annual AGU Front Range Branch Hydrology Days took place April 19-21, 1983. It was attended by 101 students and 39 professionals; 12 students presented papers in the M.S. and Ph.D. categories.

Awards were provided for the best student paper presentation in each category, and all students presenting papers received complimentary books and complimentary student membership in AGU. There was no registration fee for students.

Allan Freeze, President-Elect of AGU's Hydrology Section, delivered the keynote address, entitled "Rainfall-Runoff: Scientific Inquiry and Engineering Prediction," to Joris Daniels, State Engineer, presented the first Hydrology Days award for outstanding contributions to Hydrology to Professor Emeritus Robert E. Glover.

Members of the organizing committee were H. J. Morel-Seytoux, chairman; H. S. Boyne, D. G. Decourcy, A. Kline, T. B. McKee, F. M. Smits, D. K. Sunada, and J. W. Warner. Several private firms contributed to the costs of the conference: Ott Water Engineers of Denver, Sintons, Li and Associates of Fort

Wadsworth, and the University of Colorado.

For advertising information, contact Robin E. Little, advertising coordinator, at 202-462-6903 or toll free 800-424-2488.

For species treatment of contributions send three copies of the double-spaced manuscript to the editor of the column in which you would like to appear.

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# CSIRO SENIOR OCEANOGRAPHERS

\$A31,092-\$A42,210

(2 positions)

## DIVISION OF OCEANOGRAPHY MARINE LABORATORIES HOBART TAS AUSTRALIA

CSIRO conducts scientific and technological research in laboratories located throughout Australia and employs about 7,500 staff, of whom some 2,500 are professional scientists. The Organization's research activities are grouped into two Institutes: Animal and Food Sciences, Biological Resources, Energy and Earth Resources, Industrial Technology and Physical Sciences. The CSIRO Division of Oceanography is a member of the Institute of Physical Sciences.

**GENERAL:** The CSIRO Marine Laboratories, which include the Division of Oceanography and the Division of Fisheries Research, is Australia's principal marine research institution, employing over 200 scientists and supports staff investigating the physical, chemical and biological features, including fisheries, of the oceans around Australia.

Two chartered vessels (53m and 43m) are used for research and a modern oceanographic vessel is being built to replace the 43m vessel. The Marine Laboratories have a VAX 11-750 computer, and on-line access to a Cyber 76 computer is available. New laboratories are under construction in Hobart.

**DUTIES:** The appointment will initiate and conduct research into the dynamics of the ocean, and will be expected to develop and refine procedures and phenomena relevant to applicable tidal, wind, and land processes and their impact on the variability, and particularly to study the biological variability, of the ocean. The position will involve the preparation of short-term publications. Applications should be submitted from qualified scientists to join the staff at the Division of Oceanography.

The center has openings for two partially staff-supported tenure-line positions at Assistant/Associate Professor level, one Research Scientist, one Research Associate, and three Early Research Associates. Qualifications for these positions are described below.

**QUALIFICATIONS:** A PhD degree or equivalent qualifications with extensive experience and substantial evidence of original research achievement in the field of physical oceanography, or a closely related discipline. Applicants should normally have had substantial experience and success in the design and conduct of offshore oceanographic experiments, and the interpretation of their results in relation to available theory and applications, and/or substantial success in the development and verification of theoretical models of ocean or atmospheric dynamics, and/or combination of analytical and numerical expertise.

**TENURE:** Positions with Australian Government superannuation benefits available.

**APPLICATIONS:** Submit full personal and professional details, the names of at least two referees, and quoting reference Nos. ARI/4 and ARI/5, should be directed to:

The Chief  
CSIRO Division of Oceanography  
GPO Box 1538  
HOBART TAS 7001  
AUSTRALIA  
By February 10, 1984.

38644

## • The National Water Well Association Announces • Surface and Borehole Geophysical Methods In Ground Water Investigations

February 7-9, 1984 • Sheraton San Antonio • San Antonio, Texas

Featuring 50 papers by the leading experts in applied geophysics and an exposition of state-of-the-art geophysical equipment used in ground water studies

The National Water Well Association, in cooperation with the U.S. Environmental Protection Agency, will convene this conference to provide interested individuals with information on state-of-the-art geophysical equipment and methods used in studying ground water systems.

Sessions are scheduled on the following subject areas:

- Surface Geophysical Methods Used to Estimate Aquifer Properties
- Surface Electrical Methods in Ground Water Exploration
- Gravimetric and Seismic Methods in Ground Water Exploration
- Integrated Geophysical Programs for Ground Water Exploration
- Surface Electrical Methods in Ground Water Contamination Investigations
- Integrated Programs for Ground Water Contamination Investigations
- Ground Penetrating Radar in Ground Water Investigations
- Borehole Geophysical Methods in Ground Water Investigations (two sessions)

### REGISTRATION INFORMATION

The registration fee for this conference is:

\$125

Conference Pre-registration

On-site Registration

Students

\$185

\$30

A special grant from U.S. EPA has allowed us to offer this low registration fee.

The registration fee includes two luncheons, one brunch and all refreshments. Symposium proceedings are not included in the fee.

Advance registration for this meeting is strongly recommended and is subject to confirmation. Persons with confirmed conference registration who do not attend and who do not cancel their registration prior to January 27, 1984, will be held liable for the entire registration fee. Substitutions may be made at any time.

**Visiting Professorship Meteorology:** August 16, 1984 to June 15, 1985. Some variation of these dates is possible. Excellent opportunity for individual who desires to do research while teaching a very high level of his expertise. The U.S. Naval Observatory, located in Washington, D.C., and Baltimore, MD. Salary commensurate with applicant's background. Considerable latitude of action exists in travel, publishing, etc. Within limitations funding for travel is available. Earned Ph.D. required. Academic resume and list of publications, names and addresses of three references or Professor J. E. Williams, Chairman, Faculty Search Committee, Oceanographic Department, U.S. Naval Academy, Annapolis, MD 21402. Closing date: January 31, 1984.

An equal opportunity employer.

**University of Wisconsin-Madison/Teocore Track Position:** The Division of Geology and Geophysics invites applications for an untenured tenure-track position at the assistant professor level in applied geomorphology and hydrogeology commencing in August 1984. The applicant should be committed to developing a strong research program as well as teaching undergraduate courses in some aspects of terrestrial and environmental geology. The Ph.D. is required. Applications will be considered in engineering and an interest in the field application of geologic principles are especially encouraged to apply.

Send letter of application outlining your professional goals, transcripts, resume, copies of publications, and three letters of reference to Dr. David M. McKee, Department of Geology and Geophysics, Weeks Hall, University of Wisconsin, Madison, WI 53706.

The University of Wisconsin is an equal opportunity/affirmative-action employer.

**Center for Ocean-Land-Atmosphere Interactions Department of Meteorology, University of Maryland, College Park, MD:** The Department of Meteorology at the University of Maryland has established a center to study the interactions of ocean, atmosphere, and land processes and their impact on the variability, and particularly to study the variability of the atmosphere in short-term climate. The center has openings for two partially staff-supported tenure-line positions at Assistant/Associate Professor level, one Research Scientist, one Research Associate, and three Early Research Associates. Qualifications for these positions are described below.

**1. Assistant/Associate Professor:** One tenure-line position for Atmosphere/Meteorology. The applicant should have good knowledge of orographic and atmospheric dynamics, should also have the ability to develop ocean models and carry out research on variability and/orcean-atmosphere interactions.

**2. Assistant/Associate Professor:** One tenure-line position for Atmosphere/Geophysics. The applicant should have good knowledge of atmospheric dynamics and/or ocean models, and should have demonstrated ability to carry out research on variability and/orcean-atmosphere interactions.

**3. Assistant/Associate Professor:** One tenure-line position for Atmosphere/Geophysics. The applicant should have good knowledge of atmospheric dynamics and/or ocean models, and should have demonstrated ability to carry out research on variability and/orcean-atmosphere interactions.

**4. Research Scientist:** One non-tenure faculty position to be appointed fully by the grant funds. The applicant should have demonstrated excellent knowledge of atmospheric dynamics and general circulation of the atmosphere. Familiarity with the atmospheric GCMs is desirable but not essential.

**5. Research Associate:** One position for one year with possibility of extension for the second year. The applicant should have a Ph.D. with interest in studying the dynamics of atmospheric and/or atmospheric anomalies either by analysis of observed data or by analysis of model simulations.

**6. Faculty Research Assistant:** Three positions (two modeling and one for data analysis). The applicants should have at least M.S. in Meteorology and demonstrate good ability to work with large models and high-speed computers. They should also have good understanding of simple and dynamic meteorology, and familiarity with modern techniques of processing large volumes of data.

Letters of application should be sent to:

J. Shukla, Chairman

Search Committee

Department of Meteorology

University of Maryland

College Park, MD 20742.

Applications should include a curriculum vitae and names of three referees. Applications received before March 15, 1984, will receive full consideration.

The University of Maryland salaries are in policy of equal educational and employment opportunity. The University of Maryland, under Title IV of the Education Amendment of 1972, does not discriminate on the basis of sex in education, treatment of students, or employment.

The closing date is March 15, 1984.

RSU is an equal opportunity/affirmative-action employer.

The position requires an individual with an outstanding record of research in a related field and with demonstrated abilities in the development of major research programs.

Leadership qualities and ability to organize and manage research-and-development partnerships with industry are essential. Salary will be competitive with comparable positions in both the public and private sectors. Nominations and applications, with curriculum vitae and three references, should be submitted before 15 February 1984.

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